Printing date 01/17/2024

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Reviewed on 01/17/2024

Identification	
Product identifier	CFD\//
Trade name: <u>Tetracycline-HCl</u>	serving scientist
Article number: 35866 CAS Number:	
64-75-5	\sim
• EC number: 200-593-8	
Application of the substance / the mixture: Laboratory chemicals	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	$C^{(n)}$
SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	· Co
D-69115 Heidelberg Tel.: +49 6221 13840-0	
FAX: +49 6221 13840-10	2
msds.info@serva.de	
Information department: Product Safety Department Tel.: +49 6221 1	13840-35
Emergency telephone number:	3040 33
Emergency medical information in case of poisoning	
Poison Information Center Mainz-Tel: +49 (0) 6131 19240	
(Advice in German and English)	
Hazard(s) identification	
Classification of the substance or mixture	
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	or the unborn child. May cause ha
GHS08 Toxic to Reproduction 2 H361-H362 Suspected of damaging fertility	or the unborn child. May cause ha
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<i>GHS08</i> <i>Toxic to Reproduction 2 H361-H362 Suspected of damaging fertility to breast-fed children.</i> <i>Label elements</i> <i>GHS label elements</i> <i>The substance is classified and labeled according to the Globally Harr</i>	
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Safety Data Sheet acc. to OSHA HCS

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Trade name: Tetracycline-HCl

· HMIS-ratings (scale 0 - 4)

HEALTH
$$\bigcirc$$
 $Health = 0$ FIRE \bigcirc $Fire = 0$ REACTIVITY \bigcirc $Reactivity = 0$

· Other hazards

· Results of PBT and vPvB assessment:

· **PBT:** PBT - Assessment not available.

· **vPvB**: vPvB - Assessment not available.

3 Composition/information on ingredients

= 0

- · Chemical characterization: Substances
- · CAS No. Description:
- 64-75-5 tetracycline hydrochloride
- · Identification number(s):
- · EC number: 200-593-8
- · Description:
- · Empirical formula: C₂₂ H₂₄ N₂ O₈ * HCl
- · MW: 480.9

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. · After eye contact:

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- · After swallowing: Rinse out mouth. Call a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- · Suitable extinguishing agents:
- CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Nitrogen oxides (NOx) Hydrogen chloride (HCl) Carbon monoxide and carbon dioxide
- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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- *Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.*
- · Protective Action Criteria for Chemicals
- **PAC-1**: 19 mg/m³
- **PAC-2:** 210 mg/m³
- **PAC-3:** 1,300 mg/m³
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling:** Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: This product is hygroscopic. Store container tightly closed and dry.
- *Specific end use(s): No further relevant information available.*

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Additional information about design of technical systems: No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
- **Breathing equipment:** Short term filter device: Filter P2
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• *Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

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suitable:	
Nitrile rubber, NBR	
Natural rubber, NR	
Eye protection: Safety glasses	
Body protection: Protective work clothing	
Physical and chemical properties	
Information on basic physical and chemical	properties
General Information: Color:	Yellow
Odor:	Odorless
Odor: Odor threshold:	No information available
Melting point/Melting range:	No information available
Boiling point/Boiling range:	No information available
Flammability (solid, gaseous):	Based on available data, the classification criteria of
r ummubility (solla, gasebus).	flammable liquids are not met.
Explosion limits:	jj tanning të riquide di e nër mën
Lower:	No information available
Upper:	Not determined.
Flash point:	No information available
Decomposition temperature:	No information available
pH-value:	1.8-2.8
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility in / Miscibility with:	
Water:	Soluble.
Partition coefficient (n-octanol/water):	No information available
Vapor pressure:	No information available
Vapor pressure:	
Density:	No information available
Relative density:	No information available
Other information	
Appearance:	
Form:	Crystalline powder
Important information on protection of healt	h and
environment, and on safety:	The product is not explosive, but the formation of
Danger of explosion:	explosive dust/air mixtures is possible.
	επριοsive ausi/air miniures is possible.

10 Stability and reactivity

· Reactivity: No further relevant information available.

· Chemical stability:

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No further relevant information available.
- · Conditions to avoid: exposure to the light
- · Incompatible materials: Avoid contact with strong oxidizers.
- Hazardous decomposition products: In case of fire: see section 5

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:
- *Oral LD50 6,443 mg/kg* (*rat*)
- · Reproductive toxicity:
- Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity:
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · *Bioaccumulative potential:* No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects:
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA
- · UN proper shipping name
- · DOT, ADR, ADN, IMDG, IATA Void

Void

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	(Contd. of page
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS08
- · Signal word Warning
- · Hazard statements

Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

· Precautionary statements

Obtain special instructions before use.

Avoid breathing dust.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· National regulations:

 \cdot Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed. • *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Product Safety Department · Contact: +49 6221 13840-35 · Date of preparation / last revision 01/17/2024 · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures bw: body weight ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Toxic to Reproduction 2: Reproductive toxicity – Category 2